FEDERAL ITEM IDENTIFICATION GUIDE

CHEMICAL COMPOUNDS, PHOTOGRAPHIC AND COPY PROCESSING

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Commander

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This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

Table of Contents

GENERAL INFORMATION

1. Purpose and Scope

   This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

      This FIIG is comprised of the following:

         Index of Approved Item Names Covered by this FIIG
         Applicability Key Index
         Section I - Item Characteristics Data Requirements
         Section III - New text that should be here.
         Appendix A - Reply Tables
         Appendix B - Reference Drawing Groups (as applicable)
         Appendix C - Technical Data Tables (as applicable)

      a. Index of Approved Item Names Covered by this FIIG:

      The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

      b. Applicability Key Index:

      The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

      (1) The letter "X" indicates the requirement must be answered for a full descriptive item.

      (2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

      (3) A blank in the column indicates the requirement is not applicable to the specific item name.

c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign ($) for an OR condition, or a double dollar sign ($$) for an AND condition, (5) the mode code, (6) the response or reply code

(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

MRC	Mode Code	Requirement	Example
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

Index of Master Requirement Codes

INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

Approved Item Name	INC	App Key
BLEACH, PHOTOGRAPHIC	02748	A

A chemical substance which, when in solution, converts the silver image to a silver salt.

CLEARING BATH, PHOTOGRAPHIC	02749	B

A chemical substance which, when in solution, removes dye or stain from negatives or prints without altering the image or base.

DEVELOPER, INDIRECT ELECTROSTATIC PROCESS	30856	C

A electrically charged substance, used in copy processing, which acts as a carrier for the toner in recording the image on a selenium drum. Excludes DEVELOPING SOLUTION, DIRECT ELECTROSTATIC PROCESS and DEVELOPER, PHOTOGRAPHIC.

DEVELOPER, PHOTOGRAPHIC	17624	D

A chemical substance which forms a developing solution that produces a visible image on exposed photographic sensitized surfaces. It does not include DEVELOPER, X-RAY FILM PROCESSING.

DEVELOPER, X-RAY FILM PROCESSING	14872	E

A chemical substance which forms a developing solution that produces a visible image in a sensitive emulsion which has been exposed to x-rays.

DEVELOPING SOLUTION, DIFFUSION TRANSFER PROCESS	29087	C

A chemical agent which develops the negative and positive sheets of the paper to form a visible image.

DEVELOPING SOLUTION, DIRECT ELECTROSTATIC PROCESS	29088	C

A chemical agent which fuses the toner powder onto the paper, thus making the image permanent.

DEVELOPING SOLUTION, DYE TRANSFER PROCESS	29089	C

A chemical agent which activates the matrix, allowing the dye to be transferred to the copy paper.

Approved Item Name	INC	App Key
DEVELOPING SOLUTION, STABILIZATION PROCESS	29090	C

A chemical agent which activates or develops the paper prior to stabilization.

DISPERSANT	50059	C

A chemical agent which activates TONER (as modified) prior to making the copier image permanent.

DRYING AGENT, PHOTOGRAPHIC	02750	B

A chemical substance used to accelerate the drying of photographic film, plates, or prints. Sometimes a hardener is added to the drying agent to combine the drying and hardening.

DYE, PHOTOGRAPHIC	18671	F

A chemical substance used to color or tone photographic materials.

ERADICATOR, PHOTOGRAPHIC PRINT	02688	C

An item used to remove lines, spots, and tone areas from black and white photographs.

FIXER, X-RAY FILM PROCESSING	14874	K

A chemical substance which forms a fixing solution to prevent injury to the image by the undeveloped sensitive salts left over from the developing process.

FIXING BATH, PHOTOGRAPHIC	02751	G

A chemical substance which forms a fixing bath solution to prevent injury to the silver image by the undeveloped sensitive salts left over from the developing process. It does not include FIXER, X-RAY FILM PROCESSING.

FUSER FLUID	50799	C

A product consisting of ether oils and/or chemical solvents used in conjunction with copiers and laser printers.

GLOSS SOLUTION, PHOTOGRAPHIC PRINT	21112	C

A photographic chemical solution used for the purpose of bathing glossy prints prior to drying in order to enhance the gloss and to reduce static electricity and print curling.

HARDENER, PHOTOGRAPHIC	02752	H

A chemical substance which is generally used in processing film, plates, or prints where the temperature is above 70 degrees Fahrenheit. Its purpose is to harden the gelatin of the emulsion to prevent swelling or softening.

Approved Item Name	INC	App Key
HYPO ELIMINATOR, PHOTOGRAPHIC	02753	B

A chemical substance which forms a hypo eliminator solution. It is used to remove the fixing bath agent or hypo remaining on the emulsion.

INTENSIFIER, PHOTOGRAPHIC	02757	N

A chemical substance used to increase the density and contrast of a processed photographic image.

POLISH, FERROTYPE, PHOTOGRAPHIC	02759	C

A chemical substance used to clean and polish the surface of enameled or chromium-plated metal sheets or drums used to press (squeegee) photographic prints for drying.

REDUCER, PHOTOGRAPHIC CHEMICAL	02761	N

A chemical substance used in photographic processing to reduce the density of the silver image.

REPLENISHER, DEVELOPER, PHOTOGRAPHIC	02762	M

A chemical used to reactivate a processing solution to its original working strength and volume. It does not include REPLENISHER, X-RAY FILM PROCESSING.

REPLENISHER, X-RAY FILM PROCESSING	14873	E

A chemical substance designed to keep the activity of x-ray film processing solutions constant during effective life.

RETOUCHING FLUID, PHOTOGRAPHIC	20524	C

A fluid used on photographic negatives to provide a base for alterations which are made with either a pen or a pencil.

STABILIZER, PHOTOGRAPHIC	28906	J

A chemical substance which forms a stabilizing bath. In black and white processing, it is used as a substitute for the fixer to provide a quick processing technique for temporary use of film and paper. In color processing, it is used as a final chemical bath to increase permanence of the color dye images.

STOP BATH, PHOTOGRAPHIC	02763	J

A chemical solution in which film and/or paper is placed following development and preceding fixing, to neutralize the developer and stop development immediately.

Approved Item Name	INC	App Key
STRIPPING SOLUTION, WET PLATE NEGATIVE	20525	C

A colorless, cellulosic type solution used to both protect and strip, in one operation, the exposed emulsion from photographic plates in the wet-plate process.

TONER, DIRECT ELECTROSTATIC PROCESS	29092	C

A positive charged powder, or a liquid, which develops the paper prior to the fusing action.

TONER, INDIRECT ELECTROSTATIC PROCESS	30490	C

An electrically charged chemical agent, used in copy processing, which transfers the image from the charged areas of a selenium drum to the recorder paper.

TONER, PHOTOGRAPHIC	18672	L

A chemical solution used to treat finished photographic prints. The solution is designed to alter or vary the tone of the silver image for shade effects.

WASH ADDITIVE, PHOTOGRAPHIC	02765	C

A concentrate of nonspecific chemical composition formulated to be added to the wash solution to speed up the washing of exposed photographic film or paper, by reducing the sodium hyposulphite affinity for emulsions or paper fiber.

APPLICABILITY KEY INDEX

	A	B	C	D	E	F	G	H	J	K
NAME	X	X	X	X	X	X	X	X	X	X
AGXW	X	X	X	X	X	X	X	X	X	X
BRRF	X	X	X	X	X	X	X	X	X	X
BGKF	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AKKF	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
CBJH	X	X		X		X	X	X	X	
AKGT	X	X		X			X	X	X	
BGKG				AR					AR	
BGKH				X	X		X	X		X
BGKJ					X					
BGKN	X			X						
BGKK				X						
BGKL	AR			AR			AR		AR	
BGKM			AR			X				
FEAT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
TEST	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SPCL	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZW	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
CRTL	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ENAC	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
PTRM	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ELRN	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ELCD	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFJF	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AKHS	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
BBRJ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
BGTB	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
AFJQ	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
MARK	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
CBME	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
SUPP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
CXCY	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
DERM	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
HZRD	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

	L	M	N
NAME	X	X	X
AGXW	X	X	X
BRRF	X	X	X
BGKF	AR	AR	AR
AKKF	AR	AR	AR
CBJH		X	X
AKGT		X	
BGKG		AR	
BGKH		X	
BGKN		X	
BGKK		X	
BGKM	X		
FEAT	AR	AR	AR
TEST	AR	AR	AR
SPCL	AR	AR	AR
ZZZK	AR	AR	AR
ZZZT	AR	AR	AR
ZZZW	AR	AR	AR
ZZZX	AR	AR	AR
ZZZY	AR	AR	AR
CRTL	AR	AR	AR
ENAC	AR	AR	AR
PTRM	AR	AR	AR
ELRN	AR	AR	AR
ELCD	AR	AR	AR
AFJF	AR	AR	AR
AKHS	AR	AR	AR
BBRJ	AR	AR	AR
BGTB	AR	AR	AR
AFJQ	AR	AR	AR
MARK	AR	AR	AR
CBME	AR	AR	AR
SUPP	AR	AR	AR
ZZZP	AR	AR	AR
ZZZV	AR	AR	AR
CXCY	AR	AR	AR
DERM	AR	AR	AR
HZRD	AR	AR	AR

SECTION I

APP Key	MRC	Mode Code	Requirements

ALL

NAME   D   ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED17624*)

ALL

AGXW   D   PHYSICAL FORM

Definition: THE RECOGNIZED SHAPE, CONFIGURATION, STRUCTURE, OR MOLD OF A SUBSTANCE, NATURAL OR REFINED, THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AGXWDAAAL*; AGXWDAABW$$DAAAM*; AGXWDAABW$DAAAM*)

REPLY CODE	REPLY (AE98)
AACQ	CRYSTAL (crystalline)
AAEJ	GEL
AACW	GLOBULAR (bead)
AABW	GRANULAR
AAAL	LIQUID
AAAN	PASTE
AAAM	POWDER
AAGF	SLURRY

ALL

BRRF   D   UNIT PACKAGE CONTENT FORM

Definition: AN INDICATION OF THE PREPARED STATE OF THE PACKAGED ITEM(S).

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BRRFDBYK*; BRRFDBYK$DBYL*)

APP Key	MRC	Mode Code	Requirements

REPLY CODE | REPLY (AK54)
BYM | PREMIXED UNIT (ready-to-use, requiring no diluting, dissolving, or mixing)
BYL | SEPARATE UNITS FOR MIXING (two or more ingredients, separately packaged, requiring mixing before use)
BYK | SINGLE UNIT FOR MIXING (requires mixing with a diluent or solvent before use)

NOTES FOR MRCS BGKF AND AKKF: REPLY TO MRC BGKF WHEN REPLY CODE BYK OR BYL IS ENTERED FOR MRC BRRF. REPLY TO MRC AKKF IF VARIABLE YIELD QUANTITIES ARE INVOLVED, OR WHEN REPLY CODE BYM IS ENTERED FOR MRC BRRF.

ALL* (See Note Above)

BGKF   J   UNIT PACKAGE YIELD

Definition: THE YIELD PER PACKAGE UNIT WHEN MIXED AS RECOMMENDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BGKFJAF5.000*; BGKFJAM10.0*; BGKFJAF1.000$JCC3.785*)

For measurements over 1 gallon, see Appendix C, Table 2.

REPLY CODE	REPLY (AG67)
AF	GALLONS
CC	LITERS
AM	MILLILITERS
AN	OUNCES

ALL* (See Note Preceding MRC BGKF)

AKKF   J   QUANTITY WITHIN EACH UNIT PACKAGE

Definition: THE NUMBER OF THE VOLUME, FORM, OR THE DOSAGE WITHIN EACH UNIT PACKAGE.

APP Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Code from the below, followed by the numeric value. (e.g., AKKFJAF5.000*; AKKFJBA50.0*; AKKFJAN6.000$$JAF2.000*)

For dry weight quantities over 1 pound, see Appendix C, Table 1. For liquid measurements over 1 gallon, see Appendix C, Table 2.

REPLY CODE	REPLY (AG67)
AE	FLUID OUNCES
AF	GALLONS
BA	GRAMS
AJ	KILOGRAMS
CC	LITERS
AM	MILLILITERS
AN	OUNCES
AS	POUNDS

A, B, D, F, G, H, J, M, N

CBJH   D   MATERIAL TYPE FOR WHICH DESIGNED

Definition: INDICATES THE TYPE OF MATERIAL FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CBJHDAAXQ*; CBJHDAAXQ$$DAAXS*)

REPLY CODE	REPLY (AN48)
AAXQ	FILM
AAXR	PAPER
AAXS	PLATE

A, B, D, G, H, J, M

AKGT   D   REPRODUCTION TYPE

Definition: INDICATES THE TYPE OF IMAGE DESIGNED TO APPEAR ON THE MATERIAL AFTER EXPOSURE AND DEVELOPMENT.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AKGTDAS*; AKGTDAR$$DAS*)

REPLY CODE	REPLY (AG39)

APP Key	MRC	Mode Code	Requirements
		AR	BLACK AND WHITE
		AS	COLOR

NOTE FOR MRC BGKG: FOR APPLICABILITY KEY D, J, OR M, REPLY TO MRC BGKG IF REPLY CODE AS IS ENTERED FOR MRC AKGT AND THE COLOR REVERSAL PROCESS IS APPLICABLE. DO NOT REPLY TO MRC BGKG FOR APPLICABILITY KEY A, B, G, OR H.

D*, J*, M* (See Note Above)

BGKG   D   SEQUENTIAL USAGE

Definition: AN INDICATION OF WHICH STEP IN A PROCESS THE ITEM IS USED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BGKGDAD*; BGKGDAD$$DAE*)

REPLY CODE	REPLY (AG66)
AD	FIRST STAGE (first developer, first stop bath, etc.)
AE	SECOND STAGE (color developer, second stop bath, etc.)

D, E, G, H, K, M

BGKH   D   MATERIAL PROCESSING METHOD

Definition: THE MEANS OF PROCESSING FOR WHICH THE MATERIAL IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BGKHDAABD*; BGKHDAABD$$DAAAF*)

REPLY CODE	REPLY (AC58)
AABD	AUTOMATIC (roller transport processors)
AAAF	MANUAL (tank, tray)

E

BGKJ   D   PROCESSING SPEED

APP Key	MRC	Mode Code	Requirements

Definition: AN INDICATION OF THE SPEED AT WHICH AN ITEM MAY BE PROCESSED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BGKJDE*)

REPLY CODE	REPLY (AG48)
N	NOT RATED
E	RAPID
H	REGULAR

A, D, M

BGKN   D   IMAGE CONTRAST

Definition: AN INDICATION OF THE IMAGE TONE DENSITY PRODUCED BY THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BGKNDAG*; BGKNDAG$DAH*)

REPLY CODE	REPLY (AG49)
AG	HIGH
AH	LOW
AJ	MEDIUM (moderate)
N	NOT RATED

D, M

BGKK   D   GRAIN CONTROL

Definition: AN INDICATION OF THE DEGREE TO WHICH THE ITEM CAN CONTROL THE GRAIN SIZE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BGKKDAK*)

REPLY CODE	REPLY (AG49)
AK	FINE
AJ	MEDIUM
N	NOT RATED

17

APP Key	MRC	Mode Code	Requirements

A*, D*, G*, J*

BGKL   D   ADDITIVE FUNCTION

Definition: AN INDICATION OF THE FUNCTION PERFORMED BY THE ADDITIVE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BGKLDBH*; BGKLDBH$$DBJ*; BGKLDBH$DBJ*)

REPLY CODE	REPLY (AE74)
BH	HARDENER
BJ	REPLENISHER

C*, F, L

BGKM   D   COLOR TONE PRODUCED

Definition: THE HUE, TINT, OR SHADING PRODUCED BY THE ITEM.

Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 3. (e.g., BGKMDRE0000*)

ALL*

FEAT   G   SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)

ALL*

TEST   J   TEST DATA DOCUMENT

APP Key	MRC	Mode Code	Requirements

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

TESTJA1234A-654321$$JB5556A-663654*;

TESTJAA2345-654321$JB55566-663654*)

REPLY CODE	REPLY (AC28)
A	SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)
B	STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)
C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)

ALL*

SPCL   G   SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

APP Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ALL*

ZZZK J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B$$JP80205-NAS1103*)

REPLY CODE	REPLY (AN62)
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STD/SPEC
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

APP Key	MRC	Mode Code	Requirements

NOTE FOR MRC ZZZT: IF THE SPECIFICIATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL* (See Note Above)

    ZZZT   J   NONDEFINITIVE SPEC/STD DATA

    Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

    Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1$$JSTA*; ZZZTJTY1$JSTA*)

ALL*

    ZZZW   G   DEPARTURE FROM CITED DOCUMENT

    Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

    Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

ALL*

    ZZZX   G   DEPARTURE FROM CITED DESIGNATOR

    Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

    Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

ALL*

APP Key	MRC	Mode Code	Requirements
	ZZZY	G	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

ALL*

	CRTL	A	CRITICALITY CODE JUSTIFICATION

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL$$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC ENAC: ANSWERING THIS MRC WILL GENERATE AN ENAC CODE IN THE ITEM IDENTIFICATION SEGMENT (A) OF THE NSN.

ALL* (See Note Above)

	ENAC	D	ENVIRONMENTAL ATTRIBUTE CODE

Definition: INDICATES THE TYPE OF PRODUCT THAT MEETS OR EXCEEDS THE GOVERNMENT GUIDELINES FOR ENVIRONMENTALLY PREFERRED CHARACTERISTICS.

Reply Instructions: ENACDE4*; ENACDE4$$DGQ*)

REPLY CODE	REPLY (EN02)
E4	COMPREHENSIVE PROCUREMENT GUIDELINE - NON-PAPER OFFICE PRODUCTS - TONER CARTRIDGES
GQ	LOW VOLATILE ORGANIC COMPOUND - CONSUMER PRODUCTS - HOUSEHOLD

22

APP Key	MRC	Mode Code	Requirements

CONSUMER PRODUCTS

NOTE FOR MRC PTRM: IF REPLY CODE E4 WAS ENTERED FOR MRC ENAC, REPLY TO MRC PTRM.

ALL* (See Note Above)

PTRM   B   TOTAL RECOVERED MATERIALS PERCENTAGE

Definition: THE PERCENTAGE OF THE TOTAL RECOVERED OR RECYCLED MATERIAL, FROM MANUFACTURING PROCESSES OR CONSUMER, INCLUDED IN THE ITEM.

Reply Instructions: Enter the numeric value. (e.g., PTRMB50.0*)

ALL*

ELRN   G   EXTRA LONG REFERENCE NUMBER

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

ALL*

ELCD   D   EXTRA LONG CHARACTERISTIC DESCRIPTION

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)

REPLY CODE	REPLY (AN58)

23

APP Key	MRC	Mode Code	Requirements
		A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD

SECTION III

APP Key	MRC	Mode Code	Requirements
ALL			

AFJF   D   SPECIFIC USE

Definition: THE REQUIRED PURPOSE OR APPLICATION FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 2. (e.g., AFJFDHT*; AFJFDHT$$DJH*; AFJFDHT$DJH*)

ALL

AKHS   D   IMAGE TONE

Definition: THE DEGREE OF IMAGE WARMTH DESIGNED TO APPEAR ON THE FINISHED PRINT.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AKHSDAB*; AKHSDAB$DAC*)

REPLY CODE	REPLY (AG49)
AB	COLD
AC	WARM

ALL

BBRJ   D   SPECIAL HANDLING FEATURE

Definition: THAT UNUSUAL OR UNIQUE CHARACTERISTIC(S) OR QUALITY(IES) OF AN ITEM WHICH NECESSITATES THE ESTABLISHMENT OF A REQUIREMENT FOR SPECIAL HANDLING.

APP
Key   MRC   Mode Code   Requirements

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBRJDAD*; BBRJDAB$$DAD*; BBRJDAG$DAN*)

REPLY CODE	REPLY (AM83)
AB	CORROSIVE
AD	FLAMMABLE
AJ	HAZARDOUS FOR AIR TRANSPORTATION, REGULATED BY DSAM 4145.3 OR ATARAT-TARIFF-6D
AG	POISONOUS
AN	TOXIC

ALL

BGTB   H   STORAGE FACILITY

Definition: THE STORAGE FACILITY STANDARDS ESTABLISHED TO ASSURE THE SERVICEABILITY OF SUPPLIES IN STORAGE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below. (e.g., BGTBHBASAB*; BGTBHBASAC$$HBASAH*; BGTBHBASAB$HBASAH*)

If a reply is given for mandatory, replies for preferred and alternate cannot be utilized.

If a reply is given for preferred, a reply for alternate must be given. Likewise, if a reply is given for alternate, a reply for preferred must be given. Use and AND/OR coding($$/$), entering the reply for preferred first. (e.g.,

Table 1
REPLY CODE	REPLY (AN11)
D	ALTERNATE
B	MANDATORY
C	PREFERRED

Table 2
REPLY CODE	REPLY (AM81)
AB	ABOVE GROUND MAGAZINE
AT	DOCK LEVEL HEATED WAREHOUSE
AX	DOCK LEVEL UNHEATED WAREHOUSE
AS	GROUND LEVEL HEATED WAREHOUSE
AW	GROUND LEVEL UNHEATED WAREHOUSE
AF	IGLOO MAGAZINE
AG	IMPROVED OPEN
AR	SHED

APP Key	MRC	Mode Code	Requirements

Table 3

REPLY CODE	REPLY (AN12)
AF	CHILL
AC	CONTROLLED HUMIDITY
AD	FLAMMABLE
AG	FREEZE
AB	GENERAL PURPOSE
AH	HEAVY DUTY
AE	SECURITY

ALL

AFJQ   J   STORAGE TEMP RANGE

Definition: THE MINIMUM AND MAXIMUM TEMPERATURES AT WHICH AN ITEM CAN BE STORED WITHOUT DETRIMENTAL EFFECT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the minimum and maximum values. (e.g., AFJQJFP32.0/P90.0*; AFJQJCP0.0/P32.0*)

REPLY CODE	REPLY (AB36)
C	DEG CELSIUS (Centigrade)
F	DEG FAHRENHEIT

ALL

MARK   G   SPECIAL MARKINGS

Definition: MARKINGS INCLUDED ON AN ITEM FOR THE PURPOSE OF OFFERING INSTRUCTIONS OR WARNINGS OR TO INDICATE THE PURPOSE, FUNCTION, OR APPLICATION OF THE ITEM. EXCLUDES MANUFACTURERS PART NUMBERS, SYMBOLS, OR THE LIKE.

Reply Instructions: Enter the reply in clear text. (e.g., MARKGDO NOT DROP*)

ALL

CBME   J   CUBIC MEASURE

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

26

APP
Key   MRC   Mode Code   Requirements

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CBMEJCF27.000*; CBMEJCC5.0*)

REPLY CODE	REPLY (AN76)
CC	CUBIC CENTIMETERS
CF	CUBIC FEET
CN	CUBIC INCHES
CM	CUBIC METERS

ALL

SUPP   G   SUPPLEMENTARY FEATURES

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)

ALL

ZZZP   J   PURCHASE DESCRIPTION IDENTIFICATION.

Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.

Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) Code, followed by a dash and the identifying number of the document.

(e.g., ZZZPJ81337-30642A*)

ALL

ZZZV   G   FSC APPLICATION DATA

Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT*)

APP Key	MRC	Mode Code	Requirements
ALL			

CXCY G PART NAME ASSIGNED BY CONTROLLING AGENCY

Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD*)

ALL

DERM D LEVEL OF DERMAL IRRITATION POTENTIAL

Definition: AN INDICATION OF THE LEVEL OF POTENTIAL FOR ADVERSE SKIN REACTIONS FROM DERMAL EXPOSURE TO A PRODUCT.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., DERMDAB*)

REPLY CODE	REPLY (DE01)
AA	EXEMPT, LESS THAN 5 PERCENT CHEMICAL COMPONENT BY WEIGHT
AB	MODERATE
AC	NEGLIGIBLE
AD	SLIGHT
AE	STRONG

ALL

HZRD D HAZARDOUS SUBSTANCES

Definition: THE SUBSTANCES AND/OR MATERIALS CONTAINED IN THE ITEM THAT HAVE BEEN IDENTIFIED AS HAZARDOUS OR ENVIRONMENTALLY DAMAGING BY THE ENVIRONMENTAL PROTECTION AGENCY OR OTHER AUTHORIZED GOVERNMENT AGENCY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., HZRDDHAZ014*; HZRDDHAZ014$$DHAZ020*)

REPLY CODE	REPLY (HZ00)

28

APP Key	MRC	Mode Code	Requirements
		HAZ014	CORROSIVE LIQUID
		HAZ015	CORROSIVE SOLID
		HAZ020	FLAMMABLE

Reply Tables

Table 1 - NONDEFINITIVE SPEC/STD DATA

NONDEFINITIVE SPEC/STD DATA

REPLY CODE	REPLY (AD08)
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR

REPLY CODE	REPLY (AD08)
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE

REPLY CODE	REPLY (AD08)
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Table 2 - SPECIFIC USES

SPECIFIC USES

REPLY CODE	REPLY (AD34)
JK	BIMAT TRANSFER
JF	COLOR NEGATIVE
JG	COLOR PRINT
DH	COLOR SEPARATION
HT	COMMERCIAL
HX	DIRECT WRITING OSCILLOGRAPH
HW	LITHOGRAPH
HY	MICROFILM
HZ	MOTION PICTURE POSITIVE
JA	NEGATIVE TO POSITIVE COPYING
JC	PHOTOCOPYING
JB	PHOTOMECHANICAL (includes Engineering Reproduction, Graphic Arts, Screen, etc.)
JD	PHOTORECORDING
JH	PORTRAIT
JE	POSITIVE TO POSITIVE COPYING

Table 3 - COLORS

COLORS

REPLY CODE	REPLY (AD06)
A	ANY ACCEPTABLE
BL0000	BLACK
BU0000	BLUE
BR0000	BROWN
CL0000	CLEAR
GL0000	GOLD
GY0000	GRAY
GR0000	GREEN
RE0000	RED

REPLY CODE	REPLY (AD06)
MS0059	SEPIA
WH0000	WHITE
YE0000	YELLOW

Reference Drawing Groups

No table of contents entries found.

Technical Data Tables

OUNCE TO DECIMAL OF A POUND CONVERSION CHART

OUNCES	POUNDS
1	0.062
2	0.125
3	0.188
4	0.250
5	0.312
6	0.375
7	0.438
8	0.500
9	0.562
10	0.625
11	0.688
12	0.750
13	0.812
14	0.875
15	0.938
16	1.000

OUNCES TO DECIMAL OF A GALLON CONVERSION CHART

OUNCES	GALLONS
1	0.008
2	0.016
3	0.023
4	0.031
5	0.039
6	0.047
7	0.055
8	0.063
9	0.070
10	0.078
11	0.086
12	0.094
13	0.102
14	0.109
15	0.117
16 (pt)	0.125
17	0.133
18	0.141
19	0.148

OUNCES	GALLONS
20	0.156
21	0.164
22	0.172
23	0.180
24	0.188
25	0.195
26	0.203
27	0.211
28	0.219
29	0.227
30	0.234
31	0.242
32 (qt)	0.250
33	0.258
34	0.266
35	0.273
36	0.281
37	0.289
38	0.297
39	0.305
40	0.313
41	0.320
42	0.328
43	0.336
44	0.344
45	0.352
46	0.359
47	0.367
48	0.375
49	0.383
50	0.391
51	0.398
52	0.406
53	0.414
54	0.422
55	0.430
56	0.438
57	0.445
58	0.453
59	0.461
60	0.469
61	0.477
62	0.484
63	0.492

OUNCES	GALLONS
64	0.500
65	0.508
66	0.516
67	0.523
68	0.531
69	0.539
70	0.547
71	0.555
72	0.563
73	0.570
74	0.578
75	0.586
76	0.594
77	0.602
78	0.609
79	0.617
80	0.625
81	0.633
82	0.641
83	0.648
84	0.656
85	0.664
86	0.672
87	0.680
88	0.688
89	0.695
90	0.703
91	0.711
92	0.719
93	0.727
94	0.734
95	0.742
96	0.750
97	0.758
98	0.766
99	0.773
100	0.781
101	0.789
102	0.797
103	0.805
104	0.813
105	0.820
106	0.828
107	0.836

OUNCES	GALLONS
108	0.844
109	0.852
110	0.859
111	0.867
112	0.875
113	0.883
114	0.891
115	0.898
116	0.906
117	0.914
118	0.922
119	0.930
120	0.938
121	0.945
122	0.953
123	0.961
124	0.969
125	0.977
126	0.984
127	0.992
128 (gal)	1.000

STANDARD FRACTION TO DECIMAL CONVERSION CHART

4ths	8ths	16ths	32nds	64ths	To 3	To 4	4ths	8ths	16ths	32nds	64ths	To 3	To 4
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	------	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----		.062	.0625			9/16	-----	-----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	------	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----	-----	-----	.125	.1250		5/8	-----	-----	-----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	------	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----	-----	.188	.1875			11/16	-----	-----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	------	.219	.2188				23/32	------	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----	-----	-----	-----	.250	.2500	3/4	-----	-----	-----	-----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	------	.281	.2812				25/32	------	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----	-----	.312	.3125			13/16	-----	-----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	------	.344	.3438				27/32	------	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----	-----	-----	.375	.3750		7/8	-----	-----	-----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	------	.406	.4062				29/32	------	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----	-----	.438	.4375			15/16	-----	-----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	------	.469	.4688				31/32	------	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
					.500	.5000						1.000	1.0000

FIIG Change List

FIIG Change List, Effective December 4, 2009

Remove SAC Coding from MRC BGTB.